

DH-IPC-HFW3241E-SA

2MP Lite AI IR Fixed focal Bullet Network Camera



- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080)@30 fps
- · H.265 codec, high compression rate, low bit rate
- Built-in IR LED, max. IR distance: 50 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Supports max. 256 G Micro SD card, built-in Mic
- 12V DC/POE power support
- IP67 protection
- · SMD













System Overview

With advanced deep learning algorithm, Dahua Lite AI series network camera supports some intelligent functions, such as perimeter protection and smart motion detection. It adopts starlight solution, which makes a better image effect in low illuminance.

Functions

Smart (H.265+ & H.264+)

Adopting advanced algorithm of auto stream control according to the environment, Dahua smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

Wide dynamic range (WDR)

Dahua adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back-light environment, bright region and dark region with strong light source, you can also get clear images.

Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

Intelligent Video Analysis (IVS)

With advanced video algorithm, Dahua camera supports intelligent detection, such as tripwire and intrusion and so on.

Smart Motion Detection (SMD)

With intelligent algorithm, Dahua Smart Motion Detection technology can effectively recognize the target types, flitting the motion detection alarm triggered by non-concerned target types. It can realize effective and accurate alarm.

Protection (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Specification						Video Bit	t Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 Kbps	
Camera					Day/Nigh	nt	Auto(ICR)/Color/B/W		
Image Sensor		1/2.8"2Megapixel progressive CMOS				BLC		Yes	
Effective Pixels		1920 (H) ×1080 (V)				HLC		Yes	
ROM		128 MB				WDR		120 dB	
RAM		256 MB				White Ba	lanco	Auto/natural/street lamp/outdoor/manual/regional	
Scanning System		Progressive						custom	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				Gain Con		Auto/Manual	
Min. Illumination		0.002 Lux@F1.6				Noise Re		3D DNR	
IR Distance		50 m (164.0 ft)					Detection	OFF/ON (4 areas, rectangular)	
IR On/Off Control		Auto/Manual				Region o	f Interest(RoI)	Yes (4 areas)	
IR LEDs Number		1 (IR LED)				Smart IR		Yes	
Pan/Tilt/Rotatio	Pan/Tilt/Rotation Range		Horizontal: 0°–360°; vertical: 0°–90°; rotation: 0°–360°				otation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution.)	
Lens						Mirror		Yes	
Lens Type		Fixed focal				Privacy N	Masking .	4 areas	
Mount Type		M12				Audio			
Focal Length		2.8 mm; 3.6 mm; 6 mm				Built-in N	ЛІС	Yes	
Max. Aperture		F1.6				Audio Co	mpression	G.711a; G.711Mu; G726; AAC	
Field of View		2.8 mm: Horizontal:106°; vertical: 57°; diagonal: 126° 3.6 mm: Horizontal:87°; vertical: 46°; diagonal: 104° 6 mm: Horizontal:54°; vertical: 29°; diagonal: 63°				Netwo	rk		
Iris Type		Fixed aperture				Network		RJ-45 (10/100 Base-T)	
Close Focus Distance		2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft) 6 mm: 2.5 m (8.2 ft)				Protocol		IPv4;IPv6;HTTP;HTTPs;TCP;UDP;ARP;RTP;RTSP;RTCP; RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP; Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP	
	Lens	Detect	Observe	Recognize	Identify	Interope	rability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec	
	2.8mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)	Scene Se	lf-adaptation	Yes	
DORI Distance	2.6	55.2 m	22.1 m	11.0 m	5.5 m	User/Hos	st	20 (Total bandwidth: 64 M)	
	3.6mm	(181.1 ft) 82.8 m	(72.5 ft) 33.1 m	(36.1 ft) 16.6 m	(18.0 ft) 8.3 m	Edge Sto	Edge Storage	FTP; SFTP; Micro SD Card (support max. 256 G); Dahua Cloud; NAS	
6mm Professional, Intellige		(271.7 ft) (108.6 ft) (54.5 ft) (27.2 ft)				Browser		IE: IE8, IE9, IE11 Chrome Firefox	
Perimeter Prote	Perimeter Protection		Tripwire; intrusion (Recognition of human and vehicle)				ment Software	Smart PSS, DSS, DMSS	
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event				Mobile P	hone	IOS; Android	
ve l						Certific	cation		
Video								CE-LVD: EN60950-1	
Smart Codec	Video Compression Smart Codec		H.265; H.264; H.264H; H.264B; MJPEG Yes				Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B	
Video Frame Rate		Main stream (1920 × 1080@1–25/30 fps) sub stream(704 × 576@1–25 fps/704 × 480@1–30 fps)				Power		UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
		third stream(1280 × 720@1–25/30 fps)				Power Su	ıpply	12V DC/PoE (802.3af)	
Stream Capability		3 streams				Power Co	onsumption	< 5.2W	
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)				Enviro	nment		
Bit Rate Control		CBR/VBR				Operatin	g Conditions	-40°C to +60°C (-40°F to +140°F)/less than≤95%	

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Strorage Conditions	-40°C to +60°C (-40°F to +140°F)		
Ingress Protection	IP67		
Structure			
Casing	Metal		
Dimensions	192.7 mm × 70.5 mm × 66.4 mm (632.2" × 231.3" × 217.8") (L × W × H)		
Net Weight	590 g (1.3lb)		
Gross Weight	780 g (1.7lb)		

Ordering Information					
Туре	Part Number	Description			
2MP	DH-IPC-HFW3241EP-SA	2MP Lite AI IR Fixed focal Bullet Network Camera,PAL			
Camera	DH-IPC-HFW3241EN-SA	2MP Lite AI IR Fixed focal Bullet Network Camera,NTSC			
	PFA130-E	Junction Box			
	PFA152-E	Pole Mount			
Accessories	PFM321D	DC12V1A Power Adapter			
(optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet Over Coax Extender			
	PFM900-E	Integrated Mount Tester			
	PFM114	TLC SD Card			

Accessories

Optional:



PFA130-E Junction Box



PFA152-E Pole Mount



LR1002-1ET/1EC Single-port long reach ethernet over coax extender



PFM900-E Integrated Mount



PFM114 TLC SD card

PFM321D

DC12V1A Power

Adapter

Pole Mount	Junction Box		
PFA130-E+PFA152-E	PFA130-E		
	050		

Dimensions (mm[inch])





